

2002 SUGAR AND SPECIALTY CROP HIGHLIGHTS

SUGAR

Sugar production for 2002 increased 10 percent from the previous year to 270,000 tons of 96° raw sugar. A 10 percent increase in acreage for harvest accounted for the higher production. Plantations were able to harvest 2.1 million tons of sugarcane from 21,300 acres for an average yield of 99.0 tons of sugarcane per acre. Sugar prices during 2002 increased 1 percent to \$355 per ton of 96° raw sugar, this resulted in a total value of \$95.9 million for raw sugar, a 11 percent increase from 2001.

COFFEE

Coffee production was estimated at 7.5 million pounds (parchment basis) for the 2002-03 season, down 6 percent from last season's harvest of 8.0 million pounds. Coffee farmers posted farm revenues of \$23.3 million (parchment basis) during the 2002-03 season, up 19 percent from 2001-02. Farm revenues got a boost from a 27 percent increase in the farm price to an average of \$3.10 per pound (parchment basis) that more than offset the decline in production.

Hawaii County coffee growers harvested 4.1 million pounds (parchment basis) of coffee during the 2002-03 season, their largest crop since the 1970-71 season. An extended harvesting period and increasing production from younger plantings were the main contributors to 2002-03's higher output.

Combined production from Kauai, Maui, and Honolulu counties totaled 3.4 million pounds, down 31 percent from the 2001-02 season. A reduction in harvested acreage, the alternate bearing nature of the tree, and a shortage of labor at harvesting all contributed to the lower output.

MACADAMIA NUTS

The 2002-2003 macadamia nut crop is estimated at 52.0 million pounds net, wet-in-shell, 4.0 million pounds below last season's crop. Although rains in late 2001 and early 2002 raised expectations for a larger crop, a return to drought-like conditions in Kona growing areas and increased insect infestations contributed to the lower output. Favorable rains in early 2002 benefitted orchards that had suffered through several dry years. Unusually high incidences of Southern Green Stink Bug damage were reported in Kona, Ka'u, and Kohala, with some individual orchards incurring severe losses. Lower returns also added to the problem by discouraging some growers from properly maintaining orchards and harvesting nuts. Overall yields averaged 2,920 pounds per acre (net, wet in-shell), down 230 pounds from the previous season.

Total acreage in crop for the 2002-03 crop year was unchanged from the previous year at 18,000 acres. Virtually all acreage was harvested (17,800 acres), also the same as the previous year. There were an estimated 1.3 million macadamia nut trees on the 18,000 acres.

The farm price for net, wet in-shell macadamia nuts averaged 57.0 cents per pound for the 2002-2003 season, down 2.0 cents from the previous season's average, and the lowest since the 1978-79 crop. The farm value for the 2002-2003 crop is estimated at \$29.6 million, down 10 percent from the previous season. Increased foreign macadamia nut production continued to be cited as a factor in the downward pressure on grower prices.

COFFEE: Number of farms, acreage, yield, marketings, price, and value, by counties, 1998-2002

Crop year ¹	Farms	Acreage		Yield ²	Marketings ³	Farm prices			Value of sales	Green production
		In crop	Harvested			Cherry	Parchment	All ⁴		
	<i>Number</i>	<i>----- Acres -----</i>		<i>--- 1,000 pounds ---</i>		<i>----- Cents per pound -----</i>			<i>1,000 dollars</i>	<i>1,000 pounds</i>
State										
1998-99	610	7,400	6,100	1.6	9,500			260.0	24,700	7,600
1999-00	650	7,700	6,400	1.6	10,000			210.0	21,000	8,100
2000-01	670	7,900	6,800	1.3	8,700			265.0	23,055	7,000
2001-02	700	8,000	6,300	1.3	8,000			245.0	19,600	6,400
2002-03	710	7,200	5,900	1.4	7,500			310.0	23,250	5,900
Counties:										
Hawaii										
1998-99	600	2,800	2,170	1.6	3,500	130.0	500.0	460.0	16,100	2,800
1999-00	635	3,200	2,400	1.2	3,000	70.0	360.0	310.0	9,300	2,400
2000-01	650	3,350	2,700	1.4	3,800	85.0	425.0	400.0	15,200	3,000
2001-02	675	3,430	2,850	1.1	3,100	85.0	425.0	425.0	13,175	2,500
2002-03	680	3,500	2,850	1.4	4,100	90.0	405.0	390.0	15,990	3,200
Honolulu/Kauai/Maui⁵										
1998-99	10	4,600	3,930	1.5	6,000			143.0	8,600	4,800
1999-00	15	4,500	4,000	1.8	7,000			167.0	11,700	5,700
2000-01	20	4,550	4,100	1.1	4,900			160.0	7,855	4,000
2001-02	25	4,570	3,450	1.4	4,900			131.0	6,425	3,900
2002-03	30	3,700	3,050	1.1	3,400			213.5	7,260	2,700

¹ Coffee harvesting occurs throughout the year in Hawaii. The main harvest normally begins in late summer and extends to the early part of the following year.

² Average yields based on parchment equivalent marketings and harvested acreage.

³ Expressed in parchment equivalent pounds. Coffee marketed in cherry form was converted to an equivalent parchment weight and added to parchment marketings.

⁴ Represents an average farm price for parchment equivalent sales. Obtained by dividing farm revenues from the sale of cherry and parchment coffee by total marketings (parchment equivalent basis).

⁵ Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

GINGER ROOT, KAWA

Hawaii's ginger root farmers harvested 14.4 million pounds during the 2001-02 season, down 20 percent from the previous season's revised estimate of 18.0 million pounds. Farm prices declined 33 percent to an average of 30.0 cents per pound during the 2001-02 season, and total farm revenues were pegged at \$4.3 million, down 47 percent from the 2000-01 season.

Untimely rains in the major growing areas along the eastern side of Hawaii island was a major reason for the decline in production during the 2001-02 season. Growers also indicated that an influx of foreign ginger into the U.S. market led to a drop in local farm prices to a level that a few farmers said it was uneconomical to harvest. The overall average of 30.0 cents per pound for the entire 2001-02 crop was the lowest since the 1970-71 season.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1998-2002

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
1998	360	50.0	18,000	40.0	7,200
1999	350	46.0	16,100	50.0	8,050
2000	270	50.0	13,500	66.0	8,910
2001	360	50.0	18,000	45.0	8,100
2002	320	45.0	14,400	30.0	4,320

GINGER ROOT: U.S. imports, 1998-2002

Year	Unground (including fresh)	Ground	Sweet	Candied	Total
					1,000 pounds
1998	30,375	563	1,816	1,512	34,265
1999	33,679	669	2,059	2,000	38,406
2000	41,140	825	2,845	2,080	46,890
2001	39,682	2,255	2,649	2,151	46,737
2002	44,306	2,244	3,315	3,017	52,882

Source: Foreign Agricultural Trade of the United States, Economic Research Service, U.S. Department of Agriculture.

KAWA: Number of farms, acreage, production, price, and value, State of Hawaii, 2000-2002

Year	Farms	Acreage ¹		Total sales ³	Farm price ⁴	Value of sales
		Total ²	Harvested			
	Number	----- Acres -----		1,000 pounds	Dollars per pound	1,000 dollars
2000	50	80	5	85	1.40	119
2001	65	70	35	450	1.30	585
2002	55	50	15	60	1.15	69

¹ Includes kava inter-planted with another crop.

² As of December 31.

³ Fresh weight basis. Dried kava ('awa) sales were converted to a fresh weight basis by multiplying by five. Includes all types of sale, including organic.

⁴ Represents average farm price for fresh sales.

HERBS, SEED CROPS

FRESH HERBS: Production, price, and value, State of Hawaii, 1998-2002

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs ¹	All herbs
	Sweet (Italian)	Asian	Total				

Production - 1,000 pounds

1998	1,200	500	1,700	125	75	500	2,400
1999	1,500	600	2,100	190	90	520	2,900
2000	1,600	500	2,100	220	80	500	2,900
2001	1,500	650	2,150	330	100	620	3,200
2002	2,000	1,000	3,000	300	300	550	4,150

Farm price - dollars per pound

1998	1.90	.90		2.05	2.70	2.20	
1999	2.00	.70		2.00	2.15	2.70	
2000	2.00	.80		2.00	3.00	2.20	
2001	2.00	.80		2.00	2.10	2.45	
2002	1.95	.85		1.70	1.50	2.30	

Farm value - 1,000 dollars

1998	2,280	450	2,730	256	203	1,100	4,289
1999	3,000	420	3,420	380	194	1,404	5,398
2000	3,200	400	3,600	440	240	1,100	5,380
2001	3,000	520	3,520	660	210	1,519	5,909
2002	3,900	850	4,750	510	450	1,265	6,975

¹ Includes spearmint, dill, and other miscellaneous herbs. Also includes small amounts of basil and parsley for which an individual total could not be obtained or published separately in order to avoid disclosure of individual operations.

SEED CROPS: Number of farms, acreage, outshipments, and value, State of Hawaii, 1998-2002

Crop year ¹	Farms	Acreage				Total outshipments of seed	Value ²		
		Total	Nursery	Seed increase	Grow-out or observation		Total	Seed corn	Other seed crops
	<i>Number</i>	<i>Acres</i>				<i>1,000 pounds</i>	<i>1,000 dollars</i>		
1998-99	8	3,070	1,120	1,870	80	5,000	25,300	24,620	680
1999-00	8	2,450	1,045	1,300	105	3,500	30,500	28,700	1,800
2000-01 ³	7	2,900	655	2,130	115	4,800	37,500	36,400	1,100
2001-02	7	3,100	730	2,240	130	5,600	45,000	43,900	1,100
2002-03	7	3,500	750	2,600	150	6,100	48,700	47,500	1,200

¹ Seed crops are grown year-round in Hawaii with the main season from November to June.

² Value is based on sales or gross operational budgets.

³ Revised.

SUGARCANE

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by counties, 1998-2002 ¹

Year	Farms ²	Acreage		Yield per acre		Production of cane for sugar	Farm price ³	Value of cane for sugar ⁴
		In crop ²	Harvested for sugar	Sugarcane ³	Raw sugar 96°			
	<i>Number</i>	<i>----- 1,000 acres -----</i>		<i>----- Tons -----</i>		<i>1,000 tons</i>	<i>Dollars per ton</i>	<i>Million dollars</i>
State								
1998	4	67.6	30.3	90.0	11.66	2,727	32.00	⁵ 87.3
1999	4	67.0	35.4	81.7	10.38	2,892	30.00	86.8
2000	3	60.0	30.2	78.3	9.97	2,365	26.30	62.2
2001	2	46.0	19.3	97.3	12.76	1,878	30.80	57.8
2002	2	47.5	21.3	99.0	12.67	2,109	30.50	64.3
Counties:								
Kauai								
1998	2	24.7	11.3	83.5	10.29	944	30.30	⁵ 28.6
1999	2	23.7	13.9	66.0	8.08	917	29.00	26.6
2000	2	23.1	12.9	58.2	7.03	751	24.70	18.5
2001	1	10.6	4.2	92.1	13.04	387	33.40	12.9
2002	1	10.8	4.8	86.5	11.40	415	31.30	13.0
Maui								
1998	2	42.9	19.0	93.8	12.48	1,783	32.90	58.7
1999	2	43.3	21.5	91.9	11.86	1,975	30.50	60.2
2000	1	36.9	17.3	93.3	12.18	1,614	27.10	43.7
2001	1	35.4	15.1	98.7	12.68	1,491	30.10	44.9
2002	1	36.7	16.5	102.7	13.04	1,694	30.30	51.3

¹ Primary data source, Hawaii Agricultural Research Center.

² At end of year.

³ Yield and farm price may not compute exactly due to rounding.

⁴ Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses.

⁵ Revised.

SUGAR: Production of raw sugar and molasses, price, and value, by counties, 1998-2002 ¹

Year	Mill production		Average returns received ²		Value of production		
	Raw sugar 96°	Molasses ³	Raw sugar 96°	Molasses ³	Raw sugar 96°	Molasses ³	Total
	----- 1,000 tons -----		----- Dollars per ton -----		----- Million dollars -----		
State							
1998	354	118	368	23.50	130.3	2.8	133.1
1999	368	137	352	13.30	129.5	1.8	131.3
2000	301	102	309	27.20	93.1	2.8	95.9
2001	246	86	351	49.70	86.4	4.2	90.6
2002	270	90	355	49.40	95.9	4.4	100.3
Counties:							
Kauai							
1998	117	33	366	24.50	42.8	.8	43.6
1999	113	38	351	13.70	39.7	.5	40.2
2000	91	31	305	29.60	27.8	.9	28.7
2001	55	14	349	53.00	19.2	.7	19.9
2002	54	16	359	45.90	19.4	.7	20.1
Maui							
1998	237	85	369	23.10	87.5	2.0	89.5
1999	255	99	352	13.20	89.8	1.3	91.1
2000	210	71	311	26.20	65.3	1.9	67.2
2001	191	72	352	49.00	67.2	3.5	70.7
2002	216	74	354	50.10	76.5	3.7	80.2

¹ Primary data source, Hawaii Agricultural Research Center.² Derived from production and value. State and county prices may not compute exactly due to rounding.³ Commercial.

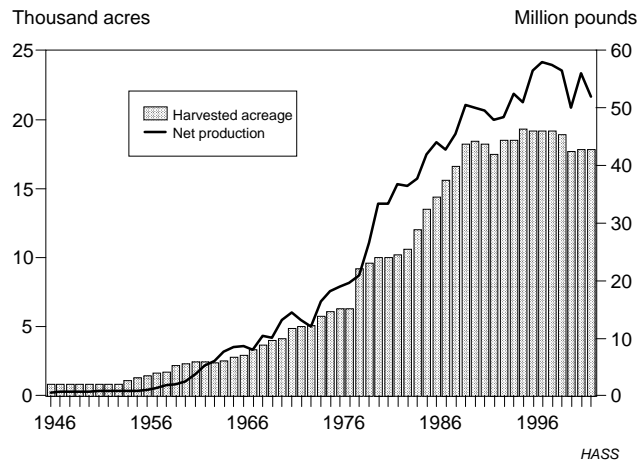
MACADAMIA NUTS

MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1998-2002 crop years

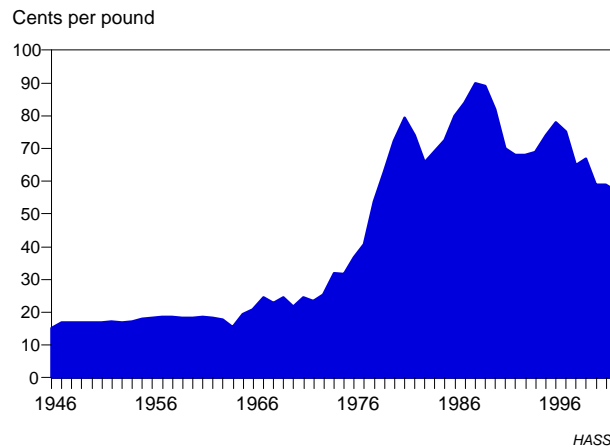
Crop year ¹	Farms	Acreage		Yield per acre ³	Production ⁴		Average moisture		Farm prices ⁴		Farm value ⁸
		In crop	Harvested ²		Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	
	<i>Number</i>	<i>----- Acres -----</i>			<i>---- 1,000 pounds ----</i>		<i>----- Percent -----</i>		<i>Cents per pound -----</i>		<i>1,000 dollars</i>
1998-99	800	20,200	19,200	3.0	66,000	57,500	20.5	20.8	57.0	65.0	37,375
1999-00	750	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855
2000-01	650	18,400	17,700	2.8	56,000	50,000	21.0	21.0	52.7	59.0	29,500
2001-02	650	18,000	17,800	3.1	62,000	56,000	21.2	21.9	53.3	59.0	33,040
2002-03	650	18,000	17,800	2.9	58,000	52,000	20.8	20.7	51.1	57.0	29,640

¹ Season begins July 1st and ends June 30th of the following year. ² Called bearing acreage prior to 1993-94 crop year. ³ Net production divided by acreage harvested. ⁴ Wet in-shell basis, delivered to processors. ⁵ Gross pounds delivered for processing. ⁶ Gross pounds delivered for processing less total spoilage. ⁷ Farm value divided by gross production. ⁸ Net production multiplied by net farm price.

MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-2002 Seasons



MACADAMIA NUTS: Net Wet-in-shell Farm Prices, State of Hawaii, 1946-2002 Seasons



FLORICULTURE AND NURSERY PRODUCTS

Grower sales of Hawaii's flower and nursery products totaled a record \$92.1 million in 2002. Wholesale value was 4 percent higher than the \$88.6 million value for 2001. Orchids, lei flowers, and potted flowering plant categories registered increases in 2002.

Hawaii county, with \$47.5 million in sales, ranked number one in 2002. Honolulu farmers registered sales of \$31.5 million, 20 percent higher than 2001. Maui county sales totaled \$10.8 million, 9 percent higher than last year. Kauai sales, pegged at \$2.3 million, were 24 percent higher than 2001.

FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by counties, 1998-2002

Year	Cut flowers ¹	Orchids ²	Lei flowers	Foliage ³	Potted flowering plants	All other nursery products ⁴	Unspecified sales ⁵	Total
<i>1,000 dollars</i>								
State								
1998	15,176	15,790	3,485	⁶ 15,403	3,892	17,982	1,479	73,207
1999	16,517	17,166	4,051	16,055	4,421	15,978	1,537	75,725
2000	16,297	18,106	3,615	18,295	5,044	19,850	1,477	82,684
2001	14,566	20,650	3,928	20,380	5,010	22,838	1,225	88,597
2002	12,859	22,448	4,314	16,898	5,725	28,535	1,290	92,069
Counties:								
Hawaii								
1998	11,410	9,114	1,022	⁶ 11,612	1,676	3,715	604	39,153
1999	12,588	10,015	1,697	12,754	2,011	2,718	679	42,462
2000	12,592	10,319	1,140	15,757	2,120	4,859	712	47,499
2001	11,194	11,954	1,213	17,885	2,394	5,467	530	50,637
2002	9,182	13,326	1,180	14,211	2,030	6,967	595	47,491
Honolulu								
1998	774	5,839	1,258	⁶ 3,331	1,387	10,745	409	23,743
1999	745	5,741	1,210	2,601	1,063	10,119	386	21,865
2000	680	6,515	1,098	1,940	1,609	11,832	327	24,001
2001	502	7,330	1,384	2,116	1,351	13,195	320	26,198
2002	486	7,895	1,446	2,214	2,514	16,649	320	31,524
Kauai								
1998	138	⁷	⁷	⁷	⁷	1,090	132	1,360
1999	133	411	⁷	72	118	696	117	1,547
2000	99	245	⁷	55	194	560	113	1,266
2001	314	255	⁷	⁷	130	1,020	145	1,864
2002	296	246	⁷	⁷	69	1,547	145	2,303
Maui								
1998	2,854	⁷	⁷	⁷	⁷	5,763	334	8,951
1999	3,051	999	⁷	628	1,229	3,589	355	9,851
2000	2,926	1,027	⁷	543	1,121	3,976	325	9,918
2001	2,556	1,111	⁷	⁷	1,135	4,866	230	9,898
2002	2,895	981	⁷	⁷	1,112	5,533	230	10,751

¹ Cut orchids included in "Orchids" category. ² Excludes orchids used for lei flowers. ³ Includes potted, cut, and unfinished. Beginning 1998, Landscape foliage included with "All other nursery products". ⁴ Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified. Sum of county estimates may not add to State total due to rounding. ⁵ Includes grower sales greater than \$999 but less than \$10,000 which were not categorized. ⁶ Unfinished foliage, 1998 included in "All other nursery products". ⁷ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
CUT FLOWERS				
Anthuriums - dozens				
1998	75	11,285	834	6,301
1999	68	11,500	1,019	6,725
2000	64	NA	1,010	7,357
2001	61	NA	876	5,929
2002	60	NA	756	4,908
Birds of Paradise - dozens				
1998	24	2,285	66	495
1999	25	5,650	86	566
2000	26	NA	101	690
2001	27	NA	97	676
2002	22	NA	80	573
Carnations, miniature - bunches				
1998	5	115	47	124
1999	4	75	51	131
2000 ³				
2001 ³				
2002 ³				
Chrysanthemums, pompon - bunches				
1998	6	265	196	358
1999	4	250	251	588
2000	4	NA	206	415
2001	4	NA	217	447
2002	4	NA	225	469
Ginger, pink - dozens				
1998	52	3,075	92	530
1999	47	3,465	82	464
2000	46	NA	81	542
2001	45	NA	67	460
2002	38	NA	61	463
Ginger, red - dozens				
1998	63	4,860	142	794
1999	61	3,380	157	748
2000	53	NA	137	750
2001	57	NA	140	820
2002	52	NA	138	936

See footnotes at end of table.

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FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
Gingers, other - dozens				
1998	30	830	18	144
1999	27	1,085	30	221
2000	26	NA	28	216
2001	23	NA	20	128
2002	22	NA	24	172
Heliconias - dozens				
1998	56	5,775	56	664
1999	58	4,860	72	613
2000	54	NA	65	671
2001	53	NA	66	672
2002	47	NA	71	662
Proteas - stems				
1998	28	8,015	2,996	1,738
1999	33	8,345	2,518	1,677
2000	25	NA	1,915	1,392
2001	28	NA	1,342	1,177
2002	23	NA	1,337	1,050
Roses⁴ - stems				
1998				
1999				
2000	9	NA	5,144	2,057
2001 ³				
2002³				
Other cut flowers - dozens				
1998	38	NA	NA	4,028
1999	31	NA	NA	4,784
2000	32	NA	NA	2,207
2001	45	NA	NA	4,257
2002	47	NA	NA	3,626

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
ORCHIDS				
Cymbidiums, cut - flowers				
1998	12	315	418	216
1999	12	335	537	337
2000	10	NA	509	315
2001	10	NA	383	218
2002	10	NA	389	211
Dendrobiums, sprays - dozens				
1998	59	2,970	419	2,864
1999	49	2,610	378	2,608
2000	49	NA	340	2,335
2001	49	NA	385	2,926
2002	51	NA	461	3,225
Oncidiums, sprays - dozens				
1998	32	485	58	580
1999	31	355	47	463
2000	37	NA	56	536
2001	36	NA	60	590
2002	31	NA	60	576
Other orchids, sprays⁵ - dozens				
1998	4	NA	NA	52
1999	6	NA	NA	28
2000	10	NA	NA	119
2001	9	NA	NA	28
2002	13	NA	NA	203
Dendrobiums, potted⁶ - pots				
1998	63	NA	1,107	6,069
1999	72	NA	942	5,640
2000	74	NA	1,065	6,528
2001	76	NA	1,155	6,683
2002	76	NA	1,357	7,336
Phalaenopsis, potted - pots				
1998	20	NA	221	1,178
1999	21	NA	205	1,169
2000	24	NA	143	1,030
2001	29	NA	161	1,055
2002	26	NA	123	818
Other orchids, potted - pots				
1998	57	NA	951	4,831
1999	61	NA	1,551	6,921
2000	75	NA	1,561	7,243
2001	80	NA	2,148	9,150
2002	79	NA	2,220	10,079

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
LEI/INDIVIDUAL BLOOMS				
Carnations - blooms				
1998	9	NA	6,800	448
1999	7	NA	5,600	397
2000	6	NA	5,400	377
2001	6	NA	5,600	387
2002	6	NA	8,100	614
Dendrobiums - blooms				
1998	28	NA	28,900	855
1999	27	NA	21,700	673
2000	26	NA	19,900	615
2001	27	NA	23,700	732
2002	25	NA	26,400	803
Pikake - strands				
1998	5	NA	55.6	128
1999	7	NA	82.5	222
2000	8	NA	77.8	270
2001	8	NA	62.0	140
2002	9	NA	82.0	241
Plumerias - blooms				
1998	9	NA	23,800	601
1999	10	NA	45,000	931
2000	12	NA	21,700	538
2001	13	NA	29,300	664
2002	14	NA	25,200	608
Tuberoses - blooms				
1998	6	NA	19,500	912
1999	6	NA	20,400	959
2000	7	NA	22,100	987
2001	6	NA	29,200	1,405
2002	6	NA	31,200	1,516
Vanda, Miss Joaquim - blooms				
1998	9	NA	10,900	292
1999	7	NA	11,300	396
2000	7	NA	14,000	503
2001	6	NA	7,900	332
2002	5	NA	5,700	240
Other lei/individual - blooms				
1998	NA	NA	NA	249
1999	NA	NA	NA	473
2000	NA	NA	NA	325
2001	NA	NA	NA	268
2002	NA	NA	NA	292

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
FOLIAGE				
Potted, primarily for indoor or patio use ⁷				
1998	74	5,035	NA	14,617
1999	65	5,265	NA	15,002
2000 ⁸				
2001 ⁸				
2002 ⁸				
Potted, dracaena ⁹				
1998				
1999				
2000	31	NA	NA	6,648
2001	32	NA	NA	8,443
2002	31	NA	NA	5,333
Potted, palms ⁹				
1998				
1999				
2000	44	NA	NA	8,434
2001	45	NA	NA	8,280
2002	42	NA	NA	7,719
Potted, hanging baskets ⁹				
1998				
1999				
2000	16	NA	NA	123
2001	15	NA	NA	129
2002	16	NA	NA	177
Potted, other ⁹				
1998				
1999				
2000	39	NA	NA	1,880
2001	32	NA	NA	2,384
2002	29	NA	NA	2,140

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
Ti leaves, cut - leaves				
1998	41	2,585	6,000	412
1999	45	2,575	5,900	468
2000	37	NA	2,100	161
2001	39	NA	4,700	432
2002	40	NA	5,900	587
Other greens, cut				
1998	35	NA	NA	374
1999	22	NA	NA	224
2000	32	NA	NA	347
2001	32	NA	NA	215
2002	24	NA	NA	207
Unfinished foliage stock (for further growing on)				
1998 ¹⁰				
1999 ¹⁰				
2000	12	NA	NA	702
2001	8	NA	NA	497
2002	12	NA	NA	735
POTTED BEDDING/GARDEN				
Impatiens, New Guinea				
1998 ¹⁰				
1999 ¹⁰				
2000	11	NA	104	129
2001	10	NA	131	192
2002	11	NA	135	194
Impatiens, other				
1998 ¹⁰				
1999 ¹⁰				
2000	8	NA	169	103
2001	10	NA	279	158
2002	11	NA	263	143
Other bedding/garden				
1998 ¹⁰				
1999 ¹⁰				
2000	30	NA	NA	2,502
2001	29	NA	NA	2,548
2002	29	NA	NA	3,242

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
POTTED FLOWERING PLANTS				
Anthuriums - pots				
1998	15	NA	113	321
1999	24	NA	144	495
2000	28	NA	182	677
2001	25	NA	177	673
2002	25	NA	133	602
Bromeliads - pots				
1998	8	NA	88	423
1999	14	NA	112	626
2000	18	NA	111	593
2001	18	NA	138	588
2002	14	NA	191	764
Chrysanthemums - pots				
1998	5	NA	127	573
1999	4	NA	159	677
2000	6	NA	178	738
2001	5	NA	176	737
2002	5	NA	150	652
Poinsettias - pots				
1998	30	NA	263	1,012
1999	30	NA	332	1,233
2000	31	NA	334	1,292
2001	35	NA	328	1,273
2002	31	NA	365	1,393
Other potted flowering plants				
1998	27	NA	NA	1,563
1999	26	NA	NA	1,390
2000	30	NA	NA	1,744
2001	34	NA	NA	1,739
2002	30	NA	NA	2,314

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1998-2002 ¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
PLANT RENTALS				
1998	45	NA	NA	4,715
1999	32	NA	NA	3,226
2000	37	NA	NA	3,374
2001	42	NA	NA	3,098
2002	46	NA	NA	3,800
LANDSCAPE PLANTS				
1998 ¹⁰				
1999 ¹⁰				
2000	98	NA	NA	10,601
2001	110	NA	NA	12,996
2002	111	NA	NA	16,231
OTHER NURSERY PRODUCTS ¹¹				
1998				13,267
1999				13,113
2000				3,141
2001				3,846
2002				4,925
UNSPECIFIED SALES ¹²				
1998				1,479
1999				1,537
2000				1,477
2001				1,225
2002				1,290
TOTAL				
1998	745			73,207
1999	765			75,725
2000	735			82,684
2001	790			88,597
2002	805			92,069

NA = Not available. ¹ Beginning 1992, includes only producers having total sales of \$10,000 or more. ² Number for each individual flower item is count of those having sales of that item during each year; "Total" is unduplicated count. ³ Included with "Other cut flowers". ⁴ Prior to 2000, included with "Other cut flowers". ⁵ Includes cattleyas, vanda hybrids, phalaenopsis, and paphiopedilums. ⁶ Includes in bud/bloom and community pots. ⁷ Includes hanging baskets. ⁸ Beginning 2000, separated into "Dracaena", "Palms", "Hanging baskets", and "Other". ⁹ Prior to 2000, included with "Potted, primarily for indoor or patio use". ¹⁰ Included with "Other nursery products". ¹¹ Includes other flowers or nursery products not elsewhere classified. ¹² Beginning 1992, includes sales of growers greater than \$999 but less than \$10,000 which were not categorized.

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms and growing area, by counties, 1998-2002

Year	Farms	Greenhouse ¹	Artificial shade	Natural shade	Open field	Total area
	<i>Number</i>	<i>----- 1,000 square feet -----</i>	<i>----- Acres -----</i>			
State						
1998	745	2,810	24,200	9	2,050	2,679
1999	765	2,910	25,695	15	2,040	2,712
2000	735	3,235	25,180	7	2,060	2,719
2001	790	3,175	26,660	9	2,355	3,049
2002	805	2,690	29,055	10	2,685	3,424
Counties:						
Hawaii						
1998	355	1,975	19,620	9	1,155	1,660
1999	355	1,970	21,450	15	1,015	1,568
2000	335	2,425	20,675	6	920	1,456
2001	360	2,265	22,010	9	1,055	1,621
2002	380	1,875	23,175	10	1,475	2,060
Honolulu						
1998	205	480	3,810	0	415	514
1999	225	485	3,360	0	465	553
2000	205	395	3,480	0	495	584
2001	220	370	3,625	0	580	672
2002	220	325	4,800	0	515	633
Kauai						
1998	40	75	295	0	45	53
1999	35	90	265	0	85	93
2000	50	70	340	1	130	140
2001	60	115	295	0	155	164
2002	55	90	395	0	170	181
Maui						
1998	145	280	475	0	435	452
1999	150	365	620	0	475	498
2000	145	345	685	0	515	539
2001	150	425	730	0	565	592
2002	150	400	685	0	525	550

¹ Glass or glass substitute structure.

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1998-2002 ¹

Commodity	1998	1999	2000	2001	2002
<i>1,000 dollars</i>					
Anthuriums, cut	9,795	10,685	10,600	8,800	7,700
Birds of Paradise	945	710	980	860	740
Cymbidiums	130	110	100	150	140
Dendrobiums, sprays	3,820	2,875	3,395	3,500	3,400
Oncidium		270	545	510	490
Foliage, cut:					
Ti leaves	475	400	670	710	680
Other cut greens	1,070	845	1,060	1,480	1,520
Foliage, potted	12,220	12,785	13,525	15,800	10,400
Ginger, red	810	875	1,010	560	600
Gingers, other	800	890	830	590	580
Heliconias	955	970	1,400	1,020	1,040
Potted orchids:					
Dendrobiums	4,360	4,120	3,850	4,900	4,500
Phalaenopsis		285	655	630	500
Other orchids	6,485	5,395	6,285	7,200	8,900
Proteas	2,405	2,130	1,930	1,560	1,620
Unfinished potted foliage stock	400	355	270	270	310
Mixed assortment of cut flowers				1,260	1,200
All other flowers and nursery products	2,510	2,245	2,345	2,300	2,700
Total	47,180	45,945	49,450	52,100	47,020

¹ Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, leis, etc., purchased within the State and hand carried out.

DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 1998-2002 ¹

Year	Individual blossoms		Cut sprays		Potted plants				Total value
	Number sold	Value	Number sold	Value	In bud/bloom		Community pots		
					Number sold	Value	Number sold	Value	
	<i>Million blooms</i>	<i>1,000 dollars</i>	<i>1,000 dozens</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>----- 1,000 dollars -----</i>	
1998	28.9	855	419	2,864	1,025	5,663	82	406	9,788
1999	21.7	673	378	2,608	816	5,119	126	521	8,921
2000	19.9	615	340	2,335	941	5,590	124	938	9,478
2001	23.7	732	385	2,926	1,035	6,013	120	670	10,341
2002	26.4	803	461	3,225	1,227	6,614	130	722	11,364

¹ Includes only producers with total sales of \$10,000 or more.